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RELIABILITY PREDICTION

Model : SP-500 Data:2000-01-12

Style	Part Type	Q'ty	λ_g	π_Q	λ_{eg}	%
9.1	Resistor-Film, Insulated (RL)	75	0.003700	10	2.775000	37.033
9.1	Resistor-Wirewound Power (RW)	7	0.008500	10	0.595000	7.940
9.1	Resistor-Film, Variable (RVC)	1	0.040000	10	0.400000	5.338
9.1	Resistor-Thermistor (RTH)	2	0.001400	10	0.028000	0.374
10.1	Capacitor-Metal, Plastic (CH)	25	0.000510	10	0.127500	1.702
10.1	Capacitor-Ceramic(Gen.) (CK)	18	0.001700	10	0.306000	4.084
10.1	Capacitor-Aluminum Dry (CE)	19	0.001300	10	0.247000	3.296
6.1	Diode-Gen. Purpose Analog	2	0.003600	8	0.057600	0.769
6.1	Diode-Switching	20	0.000940	8	0.150400	2.007
6.1	Diode-Fast Recovery Power Rectifier	1	0.023000	8	0.184000	2.455
6.1	Diode-Power Rectifier / Schottky Power	10	0.002800	8	0.224000	2.989
6.1	Diode-Voltage Ref/Reg. (Avalanche & Zener)	5	0.003300	8	0.132000	1.762
6.1	Diode-Transient Suppressor/Varistor	1	0.002900	8	0.023200	0.310
6.10	Diode-Thyristor/SCR	1	0.002500	8	0.020000	0.267
6.3	Transistor-NPN/PNP	8	0.000150	8	0.009600	0.128
6.4	Transistor-MOSFET	4	0.014000	8	0.448000	5.979
6.11	OPTO-isolator	3	0.027000	8	0.648000	8.648
6.11	OPTO-Emitter	1	0.000470	8	0.003760	0.050
5.1	Linear Microcircuits	5	0.009500	10	0.475000	6.339
11.1	Transformer Switching	1	0.000610	3	0.001830	0.024
11.2	Coil Fixed inductor or choke	5	0.000032	3	0.000480	0.006
15.1	Connector- Rectangular	5	0.050000	2	0.500000	6.673
17.1	Single Connections-Reflow solder	562	0.000069	1	0.038778	0.517
17.1	Fuses Clip-Clip Termination	2	0.000120	1	0.000240	0.003
22.1	Fuses	1	0.010000	1	0.010000	0.133
16.1	Plated Through Hole Circuit Boards	2	0.022000	2	0.088000	1.174
Total Failure rate:					7.493388	100%

- **Data Base: MIL-HDBK-217F ,Notice 2, Parts Count**
- **Env.: GB**
- **Exclude: FAN**

MTBF: 133450.98 **hrs**

Approved by: David Wang Compiled by: Kim Tseng .